

ABSTRACT OF THE DISCLOSURE

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An Ethernet switch and a method of switch for selectively transporting or filtering network packets. Said Ethernet switch comprises plural network ports, a first and a second memory device, a first and a second memory control device, a switch device, and a memory management device. Network ports are for receiving or delivering network packets. The first memory device saves the source address and associated messages of the network packets. The second memory device saves the network packets received from the network port. The first and the second memory control devices control the read and write of the first and the second memory devices. Further, the switch device creates a source address and the associated messages of the network port for each network packet, and a destination address and the associated messages of the network port for each network packet in accordance with the contents of the first memory device.

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